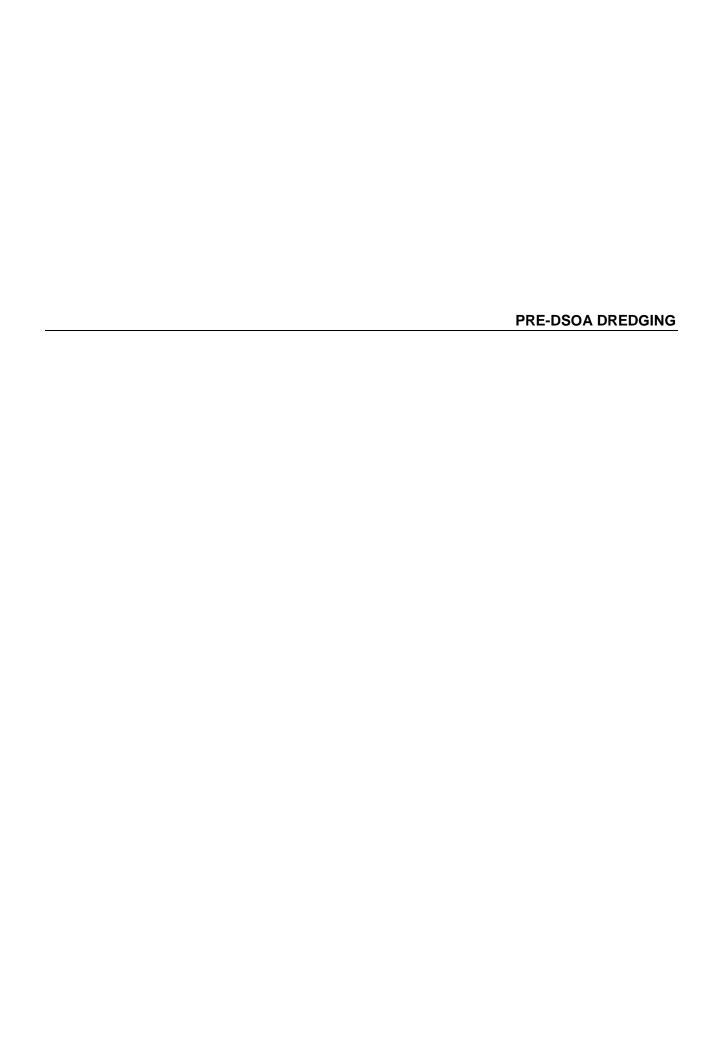
## APPENDIX L

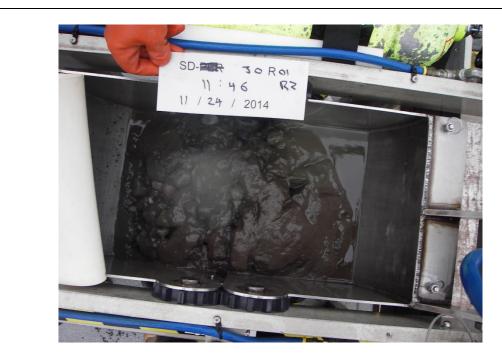
Qualitative Sample Characteristics, Photographs, and Chain-of-Custody Forms for Jorgensen Backfill Sampling



QUAL	ITATIVE SA	AMPLE CHARA	CTERISTICS	Page _	of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification	'n
		11-24-14	Boeing PL2	SD-RER JOR C	16
Coordin	ates		Water Depth		Time
North		East	Depth Unit R	4 1	
195629	127	5780	22.5 f t	) 0.2 Grab 11	21
Penetration  Depth Unit Initials S > Weath	Hines (%)	Surficial W	ood Estimate: ints	X 5 =	%
Surficial sediment characteristics:					
Biological:%	Debris:	%	Oil Sheen: None	e Trace (<5%)	%
Moisture Very Wet Wet Moist	Damp	Dry	*1	·•·	
Color Light Medium Dark			or & underline modify Brown Black	other	
Major Constituent Fine Medium Coars	e	(Circle maj Gravel 'Sand	or & underline modify	ring) Clay	
Minor Constituent with trace Fine Medium Coars	i <b>e</b>	Gravel Sand	d Silt C	Clay	
Subsurface sediment characteristics:					
Density / Consistency		# " <sub>2</sub>	¥		
Sand / Gravel - Very Loose	Loose	Medium De	ense Dense	Very Dense	
<u>Silt / Clay -</u> Very Soft	Soft	Medium Sti	iff Stiff	Very Stiff	Hard
Moisture  Very Wet Wet Moist	Damp	Dry			
Color Light Medium Dark			jor & underline modif Brown Black		
Major Constituent Fine Medium Coars	se	Gravel San Zin Minus	jor & underline modif d Sill (	ying) Clay	
Minor Constituent with trace Fine Medium Coars	se	Gravel San	d Silt	Clay	
Biological:%	Debris:	%	Oil Sheen: Nor	ne Trace (<5%)	%
Comments:					•••••
Surface cove	red b	y	AMEC Proj. BP2/	lorgensen	_
wery wet silt	/				_
			SD-JOR01		-
			QSC Form Initials:	Date: 12	2014
		v	Initials:	3 3 <del>.</del>	



QUA	LITATIVE SA	MPLE CHARAC	CTERISTICS	Page of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number
		11-24-14	Boeing PL2	SD-PER JOR O/
Coord	inales		Water Depth	Time
North	T	East	Depth Unit Re	200.00.400000.4000
195 634	1275			2 0.2 Grab 1146
Penetration  Depth Unit Initials Surficial sediment characteristics:		Surficial Wo Contact Poi	od Estimate: nts	_ X 5 =%
Biological:%	Debris:	%	Oil Sheen: None	: Trace (<5%) %
Moisture Very Wet Wet Mois  Color Light Medium Dark	t Damp	Dry (Circle majo	r & underline modifyi	
Major Constituent Fine Medium Coa	'se	(Circle majo Gravel Sand	r & underline modifyi	ing) lay
Minor Constituent with trace Fine Medium Coa	'se	Gravel Sand	Silt C	lay
Subsurface sediment characteristics:  Density / Consistency  Sand / Gravel Very Loose	Loose	Medium Der	ise Dense	Very Dense
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff Hard
Moisture Very Wet Wet Mois	st Damp	Dry		
Color Light Medium Dar	•	(Circle majo Olive Gray	Brown Black	ring) Other
Major Constituent Fine Medium Coa	rse	Gravel Sand	or & underline modify Sill C	ring) Clay
Minor Constituent with trace Fine Medium Coa	rse	Gravel Sand	Silt C	Clay
Biological:%  Comments:	Debris:	%	Oil Sheen: None	
1" thick	5.1t /	anjer over	gravel with	How fines.
		···		



Station SD-JOR01 R2

QUA	LITATIVE SA	MPLE CHARA	CTERISTICS	Page of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number
000,000,000		11-24-14		SD-REB JOROI
Coordi	nates		Water Depth	Time
North		East	Depth Unit R	ep Gear
195 632	12757	185	21-2 ft	3 0.2 Grab 1157
Penetration  Depth Unit Initials    Surficial sediment characteristics:		Surficial Wo	ood Estimate: ints	X 5 =
Biological:%	Debris:	%	Oil Sheen: None	e Trace (<5%)
Moisture Very Wel Wet Mois	l Damp	Dry		
Color Light Medium Dark		(Circle maj Olive Gray	or & underline modify Brown Black	Other
Major Constituent Fine Medium Coar	rse	(Circle maj Gravel Sand	or & underline modify	ring) Clay
Minor Constituent with trace Fine Medium Coal	rse	Gravel Sand	d Silt C	Clay
Subsurface sediment characteristics:				
Density / Consistency			9	•
Sand / Gravel - Very Loose	Loose	Medium De		Very Dense
Silt / Clay - Very Soft	Soft	Medium Sti	iff Stiff	Very Stiff Hard
Moisture  Very Wel Wet Mois	st Damp	Dry		
Color Light Medium Dari	<		jor & underline modif Brown Black	
Major Constituent Fine Medium Coa	rse	Gravel San	<b>jor &amp; underline modif</b> d Silt	ying) Clay
Minor Constituent with trace Fine Medium Coa	ırse	Gravel San	d Silt	Clay
Biological:%	Debris:	%	Oil Sheen: Nor	ne Trace (<5%)
Comments:				
No sand	Carava	elfand	51/4	
No	photo tak	<b>Ken</b>		

QUALITAT	IVE SAM	PLE CHAR	ACT	ERISTICS			Page	of
Coordinate Datum		Date (mm/dd/yy)	T	Project Location		Sample Id Nur	entification	on
		11-24-14		eing PL2		EPER 3	OR o	2
Coordinates				Water Depth				Time
North		East			Rep	Gear		
195 635	2758	12		13.8 f t	1	0.2 Grab	13	42
Penetration  Depth Unit Initials O Weather  c m 650 Weather	Fines (%)	Surficial \ Contact F		Estimate:		X 5 =		%
		97	0:	Shaan N	one	Tenno (e)	E 0/3	9/
Biological:% Debris	s:	%	Oil	Sheen: N	one .	Trace (<	- ' <sup>(%)</sup>	%
Moisture Very Wet Wet Moist	Damp	Dry						
Color Light Medium Dark	c	(Circle m Dlive Gray		underline mod own Black	100 100	Other	18	
Major Constituent Fine Medium Coarse	C	(Circle m Gravel 'Sa		underline mod Silt	difying) Clay			
Minor Constituent with trace Fine Medium Coarse	(	Gravel Sa	nd	Silt	Clay			
Subsurface sediment characteristics:  Density / Consistency				100.				,
Sand / Gravel - Very Loose	Loose	Medium [	Dense	Dense		Very Dei	nse	
Silt / Clay - Very Soft	Soft	Medium 9	Stiff	Stiff		Very Stif	f	Hard
Moisture Very Wet Wet Moist	Damp	Dry						
Color Light Medium Dark				k underline mo rown Blac				
Major Constituent Fine Medium Coarse	1		najor &	k underline mo Silt	difying Clay			
Minor Constituent with trace Fine Medium Coarse		Gravel Sa	and	Silt	Clay			
Biological:% Debr	is:	%	0	il Sheen:	None	Trace (<	:5%)	%
Comments:	***************************************			•••••••••••				
Fine S. It surface		- AMEC P	roi F	BP2/Jorgense	en e			· · · · ·
		SD-JORG		2/301861136	-11			
		— QSC For						
					, ~ 1	N		
		_ initials:	7 CC	<u> </u>	J	72014		



Station SD-JOR02 R1

QUALIT	ATIVE SA	MPLE CHARA	CTERIST	ics		Page of
Coordinate Datum		Date (mm/dd/yy)	Project	Location	Sample Ide	
		11-24-14	Boeing PL2		SD-RER 3	50 Ac
Coordinate	es		Water	Depth		Time
North		East	Depth	-		
195641	187581	4	13-8	ft	2 0.2 Grab	1310
Penetration  Depth Unit Initials 0 Weather  19 c m 45 m Clark  Surficial sediment characteristics:	Fines (%)	Surficial Wo		te:	_ X5 =	
		01	01101	. Nam	T ( 450	
Biological:% De	ebris:	%	Oil Sheen	: None	e Trace (<59	» » [
Moisture Very Wet Wet Moist	Damp	Dry		•		
Color Light Medium Dark		(Circle majo Olive Gray	Brown	ine modify Black	other	
Major Constituent Fine Medium Coarse	)	(Circle majo Gravel Sand			ring) Clay	
Minor Constituent with trace Fine Medium Coarse		Gravel Sand	Sill	) c	Clay	
Subsurface sediment characteristics:		4				
Density / Consistency		# p		×		
Sand / Gravel - Very Loose	Loose	Medium De	nse	Dense	Very Dens	se
Silt / Clay - Very Soft	Soft	Medium Stil	f	Stiff	Very Stiff	Hard
Moisture Very Wet Wet Moist	Damp	Dry				
Color Light Medium Dark		(Circle maj Olive Gray				
Major Constituent Fine Medium Coarse	5	(Circle maj Gravel Sand			ying) Clay	
Minor Constituent with trace Fine Medium Coarse		Gravel Sand	sili	i (	Clay	
Biological:%	Debris:	%	Oil Shee	n: Nor	ne Trace (<5	i%)%
Comments: the most	\ _	book rec	rery	~ rq	sect	
	nary v	if on gil	1) not	t, need	to don	n nier
1310 attempt 3	· m	iranel ba	t yev	OYA C	tod bi	
MIZTOZIN COA	rse gr	avel				
Little surface	51/7	2 washi	ng			



Station SD-JOR02 R2

				<del></del>	
QUA	LITATIVE SA	MPLE CHARA	CTERISTICS	Page	of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number	
		11-24-14	Boeing PL2	SD-PER 30R oZ	
Coord	linates		Water Depth	Tir	ne
North		East	Depth Unit Re		
195640	12758	15	13.8 f t 3	0.2 Grab 1.32	l
Penetration  Depth Unit Initials (S) Wes	es (	Surficial Wo	ood Estimate:	1 7	
Depth Unit Initials の Wes	ather ii. %	Contact Poi	nts	V 5 -	0/
10 cm 634 cha	<u> </u>			X5 =	%
Surficial sediment characteristics:					
Biological:%	Debris:	%	Oil Sheen: None	Trace (<5%)	%
Moisture Very Wet (Wel∕ Mois	st Damp	Dry		•	
Color		(Circle mair	or & underline modifyi	na)	
Light Medium Dark	<b>‹</b>		Brown Black	Olher	
Major Constituent			or & underline modifyi		
Fine Medium Coa	rse	Gravel 'Sand	Silt Cl		
Minor Constituent with trace Fine Medium Coa	rse	Gravel Sand	Silt Cl	ay	
Subsurface sediment characteristics:				<del></del>	
Density / Consistency		¥ - 00		*	
Sand / Gravel - Very Loos	2 Loose	Medium De	nse Dense	Very Dense	
Silt / Clay - Very Soft	Soft	Medium Stif	f Stiff	Very Stiff H	lard
Moisture Very Wet Wet Moi	st Damp	Dry			
Color Light Medium Dar	k	(Circle maj Olive Gray	or & underline modifyi Brown Black	ng) Other	
Major Constituent	arse		or & underline modifyi	ng) ay	
Minor Constituent with trace				25	
Fine Medium Coa	arse	Gravel Sand	Silt C	ay	
Biological:%	Debris:	%	Oil Sheen: None	Trace (<5%)	%
Comments:				Washing	
				<i>f</i> .	
1					



Station SD-JOR02 R3

QUAL	ITATIVE SA	MPLE CHARA	ACTERISTICS	5	Pa	ge of
Coordinate Datum		Date (mm/dd/yy)	Project Loca		Sample Identific Number	cation
		11-24-14	Boeing PL2	SD	-BEB 2	E0 30
Coordin	ales		Water Dep	oth		Time
North		East		Init Rep	Gear	
145501	127 58	49	18.2 1	t j	0.2 Grab	1407
Penetration  Depth Unit Initials  C m Surficial sediment characteristics:		Surficial W Contact Po	ood Estimate: pints		X 5 = _	%
Biological: %	Debris:	%	Oil Sheen:	None	Trace (<5%)	%
Moisture Very Wet Wet Moist	Damp	Dry	-	*		
Color Light Medium Dark			jor & underline n Brown B	<b>nodifying)</b> lack	Other	
Major Constituent Fine Medium Coars	e	(Circle maj Gravel 'Sand	jor & underline n	nodifying) Clay		
Minor Constituent with trace Fine Medium Coars	e	Gravel Sand	d Silt	Clay		
Subsurface sediment characteristics:						
Density / Consistency		* *				•
Sand / Gravel - Very Loose	Loose	Medium De	ense Dens	se	Very Dense	
Silt / Clay - Very Soft	Soft	Medium St	iff Stiff		Very Stiff	Hard
Moisture Very Wet Wet Moist	Damp	Dry				
Color Light Medium Dark	,	(Circle ma Olive Gray	jor & underline i Brown B			
Major Constituent Fine Medium Coars	se	(Circle ma Gravel San	ijor & underline i d Silt	modifying) Clay		
Minor Constituent with trace Fine Medium Coars	sè C	Gravel San	d Silt	Clay		
Biological:%	Debris:	%	Oil Sheen:	None	Trace (<5%)	%
Comments: 2-1404 11 3-1407 522	the la	511	to Zin tlayer MEC Proj. BP2	gra lin c 2/Jorgens	vo/ ca.	
Alternate Stati	91/	Sc	D-JOR03 SC Form itials: <u>حا</u> سم			
		<u> </u>		- u.c	_//201	eld Forms\QSC



QUAL	ITATIVE SA	MPLE CHARA	ACTERISTICS	Page of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number
		11-54-H	Boeing PL2	SD-RER ZOR 03
Coordin	ates		Water Depth	Time
North		East	Depth Unit I	
195495	1275	5845	19,8 f t	2 0.2 Grab 1417
Penetration  Depth Unit Initials O Weath		Surficial W	Vood Estimate: oints	X 5 =%
Surficial sediment characteristics:				
Biological:%	Debris:	%	Oil Sheen: Nor	ne Trace (<5%)%
Moisture Very Wet Wet Moist	Damp	Dry	4	
Color Light Medium Dark			ajor & underline modif Brown Black	fying) Other
Major Constituent Fine Medium Coars	se ·	(Circle ma Gravel *San	ajor & underline modit nd Silt	fying) Clay
Minor Constituent with trace Fine Medium Coars	se	Gravel San	nd Silt	Clay
Subsurface sediment characteristics:		, v	* .	
Density / Consistency		*		•
Sand / Gravel - Very Loose	Loose	Medium D	Dense Dense	Very Dense
Silt / Clay - Very Soft	Soft	Medium S	stiff Stiff	Very Stiff Hard
Moisture Very Wel Wel Moist	Damp	Dry		
Color Light Medium Dark			ajor & underline modi Brown Black	
Major Constituent Fine Medium Coar	se	(Circle manager)	ajor & underline modi nd Silt	ifying) Clay
Minor Constituent with trace Fine Medium Coar	se	Gravel Sai	nd Sill	Clay
Biological:%	Debris:	%	Oil Sheen: No	one Trace (<5%)%
Comments: //2 + 0 / in	thick			
51/7 Lay	er			
			7	



Station SD-JOR03 R2

QUALITATIVE S	AMPLE CHARA	CTERISTICS	Page of
Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	11-27-14	Boeing PL2	SD-PER JOROJ
Coordinates		Water Depth	Time
North	East	Depth Unit R	
195 498 1275	5846	19.0 ft	3 0.2 Grab 14 24
Penetration  Depth Unit Initials S S Weather S Surficial sediment characteristics:	Surficial Wo Contact Poi	od Estimate: nts	X 5 =9
Biological:% Debris:	%	Oil Sheen: None	e Trace (<5%) %
Moisture Very Wet Wet Moist Damp	Dry	±	
Color Light Medium Dark		or & underline modify Brown Black	Other
Major Constituent  Eine Medium Coarse	(Circle majo Gravel 'Sand	or & underline modify	ring) Clay
Minor Constituent with trace Fine Medium Coarse	Gravel Sand	Silt C	Clay
Subsurface sediment characteristics:  Density / Consistency	· **	*** 2	•
Sand / Gravel - Very Loose Loose	Medium Der	nse Dense	Very Dense
Silt / Clay - Very Soft Soft	Medium Stif	f Stiff	Very Stiff Hard
Moisture Very Wet Wet Moist Damp	Dry		
Color Light Medium Dark		or & underline modify Brown Black	
Major Constituent Fine Medium Coarse	(Circle maj	or & underline modify Silt (	ying) Clay
Minor Constituent with trace Fine Medium Coarse	Gravel Sand	Silt	Clay
Biological:% Debris:	%	Oil Sheen: Non	ne Trace (<5%)
Comments: In thick sil	1+ large	- Over	
Coarse sand u	itta grav	'E	
			and the state of t
- n			



Station SD-JOR03 R3

QUAL	ITATIVE SA	MPLE CHARA	CTERISTICS		Page of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Ide	
		11-24-14	Boeing PL2	SD-FER	sor ey
Coordin	ales		Water Depth		Time
North		East		t Rep Gear	
195538	1275	842	15.3 f	t 0.2 Grab	1041
Penetration  Depth Unit Initials 00 Weat		Surficial Wo	ood Estimate: ints	X 5 =	%
Surficial sediment characteristics:					
Biological:%	Debris:	%	Oil Sheen:	None Trace (<5	%)%
Moisture  Very Wet Wet Moist	Damp	Dry			
Color Light Medium Dark		(Circle majo Olive Gray	Brown Blac		
Major Constituent Fine Medium Coars	Se)	(Circle major Gravel Sand	or & underline mo	odifying) Clay	
Minor Constituent with trace Fine Medium Coars	se	Gravel Sand	Silt	Clay	
Subsurface sediment characteristics:					
Density / Consistency					
Sand / Gravel - Very Loose	Loose	Medium De	nse Dense	Very Den	se
Silt / Clay - Very Soft	Soft	Medium Sti	ff Stiff	Very Stiff	Hard
Moisture Very Wet Wet Moist	Damp Damp	Dry			
Color Light Medium Dark		(Circle maj Olive Gray	or & underline mo Brown Bla	o <b>difying)</b> ck Other	
Major Constituent Fine Medium Coar	se	(Circle ma	jor & underline me	odifying) Clay	
Minor Constituent with trace Fine Medium Coar	se	Gravel Sand	d Silt	Clay	
Biological:%	Debris:	<u></u> %	Oil Sheen:	None Trace (<	5%)%
Comments: Washed				,	
Traile of surfa	re 51/2		D: DD2/1		
Grave 1 1/21	n		Proj. BP2/Jorge	ensen	
		SD-JOR			
		QSC Fo		ESS 1520070	Account to the second second
		Initials:	$C_2 \sim Date$ :	// / // /201	4



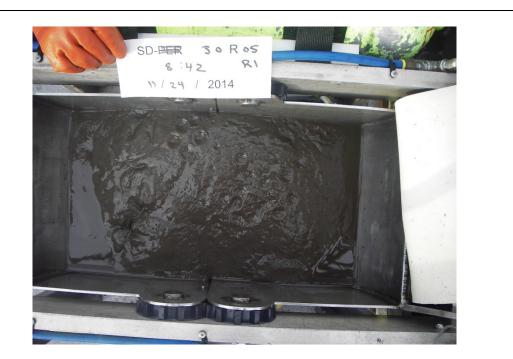
QUALITATIVE SA	MPLE CHARA	CTERISTICS	Page of
	Date		Sample Identification
Coordinate Datum	(mm/dd/yy)	Project Location Boeing PL2	SD-PER JOR 04
Coordinates		Water Depth	Time
North	East	Depth Unit Re	// Code/(2005/00/)
195539 12758	544	15,9 ft 2	0.2 Grab 1052
Penetration  Depth Unit Initials S S Weather III S S S S S S S S S S S S S S S S S	Surficial Wo Contact Poi	od Estimate: nts 	%
	%	Oil Sheen: None	Trace (<5%)%
Moisture Very Wet Wet Moist Damp	Dry		
Color Light Medium Dark		Brown Black	ing) Other
Major Constituent Fine Medium Coarse	(Circle major Gravel Sand		ing) lay  I face SIJT
Minor Constituent with trace Fine Medium Coarse	Gravel Sand		lay
Subsurface sediment characteristics:			
Density / Consistency			8 8
Sand / Gravel - Very Loose Loose	Medium Der	nse Dense	Very Dense
Silt / Clay - Very Soft Soft	Medium Stif	f Stiff	Very Stiff Hard
Moisture Very Wet Wet Moist Damp	Dry		
Color Light Medium Dark		or & underline modify Brown Black	
Major Constituent Fine Medium Coarse	(Circle maj Gravel Sand	or & underline modify Sill C	ring) Clay
Minor Constituent with trace Fine Medium Coarse	Gravel Sand	Silt C	Clay
Biological: % Debris:	%	Oil Sheen: Non	e Trace (<5%)%
Comments: Washing 1141	le 51/40	n surta	· e
Gravel 1/2402	in minus		



QUAL	ITATIVE SAM	PLE CHARAC	TERISTICS	Page _	of
	T	Date	T	Sample Identification	n
Coordinate Datum		(mm/dd/yy)	Project Location	Number	
		11-24-14 B	oeing PL2	SD-RER ZOR	34
Coordin	nates		Water Depth		Time
North		East	Depth Unit Rep		
195540	127584	7	14.5 113	0.2 Grab \\ \c	, 3
Penetration  Depth Unit Initials S > Weat	les	Surficial Wood	d Estimate:	***************************************	
Depth Unit Initials S Weat		Contact Point	s	V	٠.٠
10 cm 62m c/2md	للو			X 5 =	%
Surficial sediment characteristics:					
Biological:%	Debris:	% C	il Sheen: None	Trace (<5%)	%
Moisture					
Very Wet Wet Moist	Damp	Dry	w)		
Color		(Circle major	& underline modifyin		
Light Medium Dark	C	Olive Gray		Other	
Major Constituent		and he if other	& underline modifyin		
Fine Medium Coars	se) G	Gravel Sand	Silt Cla		
Minor Constituent with trace					
Fine Medium Coars	se)	Gravel Sand	Silt Cla	· · · · · · · · · · · · · · · · · · ·	
Subsurface sediment characteristics:		4			
Density / Consistency		* " x	ÿ	Ø	
Sand / Gravel - Very Loose	Loose	Medium Dense	e Dense	Very Dense	
					7.6
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff	Hard
Moisture  Very Wet Wet Moist	Damp	Dov			
Very Wet Wet Moist	Damp	Dry			
Color Light Medium Dark			& underline modifyir	0.0	
Contraction and the State of th			Brown Black	Other	
Major Constituent Fine Medium Coars	se)	(Circle major Gravel Sand	& underline modifying Silt Cla		
	`			-	
Minor Constituent with trace Fine Medium Coars	se (	Gravel Sand	Silt Cla	ау	
Biological:%	Debris:	%	Oil Sheen: None	Trace (<5%)	%
Comments:					
Trace of s	17 on 5	VV4416			
11466 01 >	· · · · · · ·				

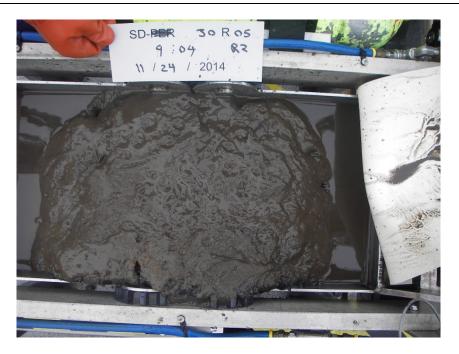


QUALITATIVE SA	MPLE CHARACTERISTICS Page of
Coordinate Datum	Date Sample Identification (mm/dd/yy) Project Location Number
Coordinate Datum	11-24 - 14 Boeing PL2 SD-PER 300 05
Coordinates	Water Depth Time
North	East Depth Unit Rep Gear
195396 12758	62 23 ft 0.2 Grab 842
Penetration  Depth Unit Initials O Weather S (%)	Surficial Wood Estimate: Contact Points
Depth Unit Initials (5) Weather (1) C m   claydy	X5 =%
Surficial sediment characteristics:	
Biological: % Debris:	% Oil Sheen: None Trace (<5%)%
Moisture  Very Wet Wet Moist Damp	Dry
Color Light Medium Dark	(Circle major & underline modifying) Olive Gray Brown Black Other
Major Constituent Fine Medium Coarse	(Circle major & underline modifying) Gravel 'Sand Silt Clay
Minor Constituent with trace Fine Medium Coarse	Gravel Sand Silt Clay
Subsurface sediment characteristics:	
Density / Consistency	
Sand / Gravek Very Loose Loose	Medium Dense Dense Very Dense
Silt / Clay - Very Soft Soft	Medium Stiff Stiff Very Stiff Hard
Moisture  Very Wet Wet Moist Damp	Dry
Color Light Medium Dark	(Circle major & underline modifying) Olive Gray Brown Black Other
Major Constituent Fine Medium Coarse	(Circle major & underline modifying) Gravel Sand Silt Clay
Minor Constituent with trace Fine Medium Coarse	Gravel Sand Silt Clay
Biological:% Debris:	% Oil Sheen: None Trace (<5%)%
Comments:	1x 1 in thick
Course grave 1 11/2	eminue under sitt theu
Coarse sand la	upp with little or notines
	AMEC Proj. BP2/Jorgensen
	SD-JOR05
	3
AMEC, 3500 188th St. SW,	Suite 601, Lynnwood, W. Initials: Sympate: 11/21/201

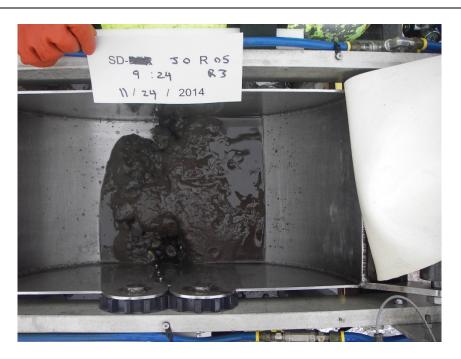


Station SD-JOR05 R1

QUALI	TATIVE SA	MPLE CH	IARACT	ERISTIC	S	F	age of
Coordinate Datum		Date (mm/dd/yy) Project Location		Sample Identification Number			
		11-24-		eing PL2		SD-RER JOY	105
Coordina	ates			Water De	epth		Time
North		East		Depth	Unit Re		
195397	12758	64		22.5	f t 2	- 0.2 Grab	404
Penetration  Depth Unit Initials S Weath  C m C S Surficial sediment characteristics:			cial Wood act Points		120 	_ X5 =	%
	Dahalas		o/ O::	Shoon:	None	Trace (<5%)	- %
Biological:%	Debris:	10-11-110-11-11	_% 011	Sheen:	None		
Moisture Very Wet Wet Moist	Damp	Dry			(*)		
Color Light Medium Dark			cle major & Gray Bro		<b>modify</b> i Black	ng) Other	-
Major Constituent Fine Medium Coarse	е	(Circ Gravel	cle major & Sand	underline Silt		ing) lay	
Minor Constituent with trace Fine Medium Coarse	е	Gravel	Sand	Silt	C	lay	•
Subsurface sediment characteristics:							
Density / Consistency							Ţ.
Sand / Gravel - Very Loose	Loose	Med	lium Dense	De	nse	Very Dense	
Silt / Clay - Very Soft	Soft	Med	lium Stiff	Sti	ff	Very Stiff	Hard
Moisture  Very Wet Wet Moist	Damp	Dry					
Color Light Medium Dark		(Cir Olive	cle major ( Gray (B	underling	e modify Black	ring) Other	
Major Constituent Fine Medium Coars	se	(Cir Gravel	Sand	& underlin Silt		ving) Clay	
Minor Constituent with trace Fine Medium Coars  Biological: %	Se Debris:	Gravel //n /	Sand % C	Silt	( Non	Claye	5) %
Comments:	r penet	ration	<del></del>				
Silt layer	4 DOLOX		111	/ in >	Aice	F	
then coar	se sa	nd w	144 Gr	avel			
						****	



QUAL	ITATIVE SA	MPLE CHAR	ACTERISTICS	Page of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number
		11-24-14	Boeing PL2	SD-TER JOR -05
Coordi	nales		Water Depth	Time
North		East	Depth Unit R	
195397	12758	(60	23.3 ft.	3 0.2 Grab 924
Penetration  Depth Unit Initials 0 Wea  5 c m 6 m 6 m class		Surficial V Contact P	Vood Estimate: oints	X 5 =%
Surficial sediment characteristics:				
Biological:%	Debris:	%	Oil Sheen: None	e Trace (<5%)%
Moisture Very Wet Wet Moist	Damp	Dry		
Color Light (Medium) Dark		(Circle ma Olive Gray	ajor & underline modify Brown Black	ving) Other
Major Constituent Fine Medium Coar	se	(Circle ma Gravel 'Sar	ajor & underline modify	ying) Clay
Minor Constituent with trace Fine Medium Coar	se	Gravel Sar	nd Silt C	Clay
Subsurface sediment characteristics:				
Density / Consistency				
Sand / Gravel - Very Loose	Loose	Medium D	ense Dense	Very Dense
Silt / Clay - Very Soft	Soft	Medium S	stiff Stiff	Very Stiff Hard
Moisture Very Wet Wet Mois	t Damp	Dry		
Color Light Medium Dark	t,		ajor & underline modif Brown Black	
Major Constituent Fine Medium Coa	rse	(Circle m	ajor & underline modif nd Silt	ying) Clay
Minor Constituent with trace Fine Medium Coa	rse	Gravel Sa	nd Silt	Clay
Biological:%	Debris:	%	Oil Sheen: Nor	ne Trace (<5%)%
Comments: 2 in lawe		ne side		
Sand Gra	1111 Depart	+A 1,H,	e finee	
. John to 1 ye feet to				



Station SD-JOR05 R3

North   1275891 East   Depth Unit   Rep   Gear		QUALITATIVE	SAMPLE CHARA	CIERISTICS			Page of
Coordinates   Water Depth   Coordinates   Water Depth   Coordinates   Water Depth   Coordinates   Coordinates   Water Depth   Coordinates	Coordinate Da	itum		Project Locati	ion		
North   1275891 East   Depth Unit   Rep   Gear						SD-RER Jo	808
North   1275891 East   Depth   Unit   Rep   Gear		Coordinates		Water Dept	h		Time
Penetration	North		1 East	Depth Ur		Gear	
Surficial sediment characteristics:  Biological:	195395	1275	892	17.8 f	t \	0.2 Grab	1005
Biological:	10 cm 67N	cloudy				X 5 =	
Very Wet Wet Moist Damp Dry  Color Light Medium Dark Olive Gray (Grown Black Other			%	Oil Sheen:	None	Trace (<5%	.)
Light Medium Dark Olive Gray Brown Black Other  Major Constituent Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Subsurface sediment characteristics:  Density / Consistency  Sand / Gravel Very Loose Loose Medium Dense Dense Very Dense  Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff H  Moisture Very Wet Wet Moist Damp Dry  Color Color Light Medium Dark Olive Gray Brown Black Other  Major Constituent Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Biological: % Debris: % Oil Sheen: None Trace (<5%)  Comments:  Gravel Sand Silt Clay  AMEC Proj. BP2/Jorgensen  SD-JOR06		Moist Damp	Dry				
Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Subsurface sediment characteristics:  Density / Consistency  Sand / Gravel Very Loose Loose Medium Dense Dense Very Dense  Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hedium Stiff Stiff Very Stiff Hedium Dark Olive Gray Brown Black Other  Light Medium Dark Olive Gray Brown Black Other  Major Constituent Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Stiff Sand Silt Clay  Minor Constituent with trace Fine Medium Sand Silt Clay  Minor Constituent with trace Fine Medium Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Silt Clay  Minor Constituent Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Sand Silt Clay  Minor Constituent With trace Fine Medium Sand Sand Sand Sand Sand Sand Sand Sand		Dark					
Fine Medium Coarse Gravel Sand Silt Clay  Subsurface sediment characteristics:  Density / Consistency  Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense  Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff H  Moisture Very Wet Wet Moist Damp Dry  Color (Circle major & underline modifying) Light Medium Dark Olive Gray Brown Black Other  Major Constituent (Circle major & underline modifying) Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Biological: % Debris: % Oil Sheen: None Trace (<5%)  Comments:  9 55 allowed Gravel Sand Gravel Dackton  AMEC Proj. BP2/Jorgensen  SD-JOR06		Coarse		and the same of th			····
Density / Consistency   Sand / Gravel - Very Loose   Loose   Medium Dense   Dense   Very Dense			Gravel Sand	ı Silt	Cla	y	
Moisture Very Wet Wet Moist Damp Dry  Color Light Medium Dark Olive Gray Brown Black Other  Major Constituent Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Biological: % Debris: % Oil Sheen: None Trace (<5%)  Comments:  Gravel Sand Silt Clay  Biological: % Debris: % Oil Sheen: None Trace (<5%)  Comments:  Gravel Sand Silt Clay  AMEC Proj. BP2/Jorgensen  SD-JOR06	Density / Consistency						
Very Wet Wet Moist Damp Dry  Color (Circle major & underline modifying) Light Medium Dark Olive Gray Brown Black Other  Major Constituent Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Biological: % Debris: % Oil Sheen: None Trace (<5%)  Comments: 955 attempt leadings of silt clay  Surface layer of silt canop Sand gravel Back to  WHA Little fines  AMEC Proj. BP2/Jorgensen  SD-JOR06	***	y Loose Loose	e Medium De	nse Dense		Very Dense	e
Light Medium Dark Olive Gray Brown Black Other  Major Constituent Fine Medium Coarse Gravel Sand Silt Clay  Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Biological: % Debris: % Oil Sheen: None Trace (<5%)  Comments: 955 attempt lead age From Sand gravel back for the first sand gravel	Sand / Gravel - Ven						e Ha
Minor Constituent with trace Fine Medium Coarse Gravel Sand Silt Clay  Biological: % Debris: % Oil Sheen: None Trace (<5%)  Comments: 455 attempt leakage through Sand gravel backets  Surface layer of silt care Sand gravel backets  AMEC Proj. BP2/Jorgensen  SD-JOR06	Sand / Gravel - Ven	y Soft Soft	Medium Sti				
Fine Medium Coarse Grave Sand Silt Clay  Biological: % Debris: % Oil Sheen: None Trace (<5%)  Comments: 455 attempt leak age through Sand grave back to provide the same of th	Sand / Gravel - Ven  Silt / Clay - Ven  Moisture  Very Wet Wet  Color	y Soft Soft Moist Damp	Medium Sti Dry (Circle maj	ff Stiff	odifyir	Very Stiff	
Comments:  955 attempt I leakage + grar panetration  Surface layer of silt and Sand grave 1 backfor  WHA 1. Hill fines  AMEC Proj. BP2/Jorgensen  SD-JORO6	Sand / Gravel - Ven  Silt / Clay - Ven  Moisture Very Wet Wet  Color Light Medium  Major Constituent	y Soft Soft  Moist Damp  Dark	Medium Sti Dry (Circle maj Olive Gray (Circle ma	ff Stiff  or & underline m  Brown Bli	iodifyir ack iodifyii	Very Stiff  ng) Other	
Surface layer of silt own Sand grave I backford  AMEC Proj. BP2/Jorgensen  SD-JORO6	Sand / Gravel - Very  Silt / Clay - Very  Moisture Very Wet Wet  Color Light Medium  Major Constituent Fine Medium  Minor Constituent with trace	y Soft Soft  Moist Damp  Dark  Coarse	Medium Stir Dry (Circle maj Olive Gray (Circle maj Gravel Sanc	ff Stiff  for & underline m  Brown Bla  for & underline m  3 Silt	n <b>odifyi</b> r ack no <b>difyi</b> r Cla	Very Stiff  ng) Other  ng)	
AMEC Proj. BP2/Jorgensen  SD-JOR06	Sand / Gravel - Ven  Silt / Clay - Ven  Moisture Very Wet Wet  Color Light Medium  Major Constituent Fine Medium  Minor Constituent with trace Fine Medium	y Soft Soft  Moist Damp  Dark  Coarse  Coarse	Medium Stir	ff Stiff  for & underline m  Brown Bla  for & underline m  d Silt	n <b>odifyir</b> ack n <b>odifyi</b> Cla	Very Stiff  ng) Other  ng) ay  ay	Ha
SD-JOR06	Sand / Gravel - Ven  Silt / Clay - Ven  Moisture Very Wet Wet  Color Light Medium  Major Constituent Fine Medium  Minor Constituent with trace Fine Medium  Biological:  Comments:	y Soft Soft  Moist Damp  Dark  Coarse  Coarse  Mebris:	Medium Stir	ff Stiff  for & underline m  Brown Bla  for & underline m  d Silt  d Silt  Oil Sheen:	n <b>odifyir</b> ack n <b>odifyi</b> Cla	Very Stiff  ng) Other  ng) ay  ay	Ha
OSC Form	Sand / Gravel - Ven  Silt / Clay - Ven  Moisture Very Wet Wet  Color Light Medium  Major Constituent Fine Medium  Minor Constituent with trace Fine Medium  Biological:  Comments:	y Soft Soft  Moist Damp  Dark  Coarse  Coarse  Beautiful Augustus and	Medium Stir	ff Stiff  for & underline m  Brown Bla  for & underline m  Silt  Silt  Oil Sheen:	nodifyir ack nodifyir Cla Cla None	Very Stiff  ng) Other  ng) ay  Trace (<59	Ha
OSC Form	Sand / Gravel - Ven  Silt / Clay - Ven  Moisture Very Wet Wet  Color Light Medium  Major Constituent Fine Medium  Minor Constituent with trace Fine Medium  Biological:  Comments:	y Soft Soft  Moist Damp  Dark  Coarse  Coarse  Beautiful Augustus and	Medium Stir	ff Stiff  for & underline m  Brown Bla  for & underline m  J Silt  Oil Sheen:	nodifyinack nodifyin Cla	Very Stiff  ng) Other  ng) ay  Trace (<59	Ha
USC FOITH eld	Sand / Gravel - Ven  Silt / Clay - Ven  Moisture Very Wet Wet  Color Light Medium  Major Constituent Fine Medium  Minor Constituent with trace Fine Medium  Biological:  Comments:	y Soft Soft  Moist Damp  Dark  Coarse  Coarse  Beautiful Augustus and	Medium Stir	ff Stiff  for & underline m  Brown Bli  for & underline m  d Silt  Oil Sheen:	nodifyinack nodifyin Cla	Very Stiff  ng) Other  ng) ay  Trace (<59	Ha

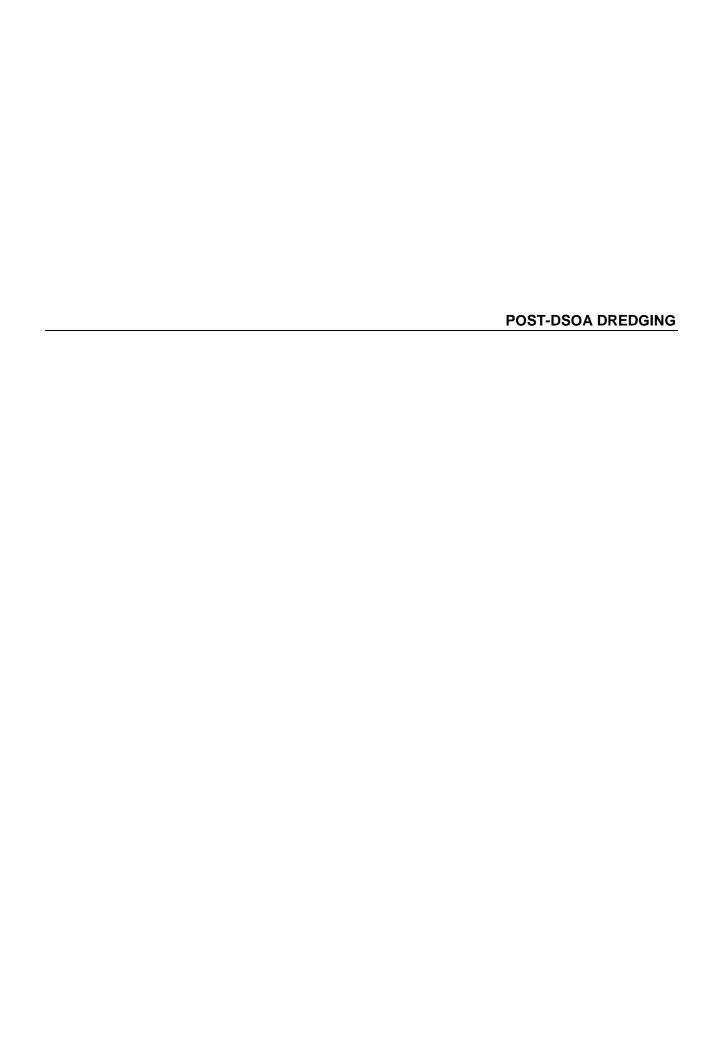


QUAL	ITATIVE SA	MPLE CHARA	ACTERISTICS	P	age of
Coordinate Datum		Date Sample Ident (mm/dd/yy) Project Location Number			
		11-24-14	Boeing PL2	SD-PER JOR	06
Coordin	nates		Water Depth		Time
North		East		Rep Gear	
195398	12758	91	16.2 ft	2 0.2 Grab	1014
Penetration  Depth Unit Initials SO Weat  // O c m GS N Colony		Surficial V	Vood Estimate: oints	X 5 =	9
urficial sediment characteristics:					
Biological:%	Debris:	%	Oil Sheen: N	lone Trace (<5%)	9/
Moisture Very Wet Wet Moist	Damp	Dry	2	*	
Color Light Medium Dark		(Circle ma Olive Gray	Brown Blac		
Major Constituent Fine Medium Coars	se	(Circle ma Gravel 'San	ajor & underline mod	difying) Clay	
Minor Constituent with trace Fine Medium Coars	se	Gravel Sar	nd Silt	Clay	
Subsurface sediment characteristics:					
Density / Consistency					*
Sand / Gravel - Very Loose	Loose	Medium D	ense Dense	Very Dense	
Silt / Clay - Very Soft	Soft	Medium S	stiff Stiff	Very Stiff	Hard
Moisture Very Wet Wei Mois	t Damp	Dry			
Color Light Medium Dark			ajor & underline mo Brown Blac		
Major Constituent Fine Medium Coan	se	(Circle m Gravel Sa	ajor & underline mo nd Silt	odifying) Clay	7
Minor Constituent with trace Fine Medium Coal	se)	Gravel Sa	nd Sill	Clay	
Biological:%	Debris:	%	Oil Sheen:	None Trace (<5%)	·
Comments:	enstration	- wushed			
surface 1	ages of	sily ap	orex tin	+hiele	
	(	5000			



QUA	LITATIVE SA	MPLE CHARA	CTERISTICS	Pag	ge of
Coordinate Datum		Date (mm/dd/yy) Project Location		Sample Identification Number	
000/01/10/0 00/01/1		11-24-14	Boeing PL2	SD-RER JOR	96
Coordi	nates		Water Depth		Time
North		East	Depth Unit F	Rep Gear	
145398	1275	888	16.3 ft	3 0.2 Grab	1022
Penetration  Depth Unit Initials O Weather Company of the Company		Surficial Wo	ood Estimate: pints	_ X5 =	%
urficial sediment characteristics:					
Biological:%	Debris:	%	Oil Sheen: Non	e Trace (<5%)	%
Moisture Very Wet Wet Mois	t Damp	Dry		•	
Color Light Medium Dark		(Circle maj Olive Gray	jor & underline modify Brown Black	ying) Other	
Major Constituent Fine Medium Coal	rse	(Circle maj Gravel 'Sand	jor & underline modify	ying) Clay	****
Minor Constituent with trace Fine Medium Coa	rse	Gravel Sand	d Silt (	Clay	
Subsurface sediment characteristics:					
Density / Consistency			,		•
Sand / Gravel - Very Loose	Loose	Medium De	ense Dense	Very Dense	
Silt / Clay - Very Soft	Soft	Medium St	tiff Stiff	Very Stiff	Hard
Moisture Very Wet Wet Moi	st Damp	Dry			
Color Light Medium Dar	k	(Circle ma Olive Gray	ajor & underline modit Brown Black	fying) Other	
Major Constituent Fine Medium Coa	arse	(Circle ma Gravel San	ajor & underline modif d Sill	fying) Clay	
Minor Constituent with trace Fine Medium Coa	arse	Gravel San	nd Silt	Clay	
Biological:%	Debris:	%	Oil Sheen: No	ne Trace (<5%)	9
Comments:	Na.Shi	ie,			
Surtur	51/4	laxer 4	Zin or th	inner	
		7			



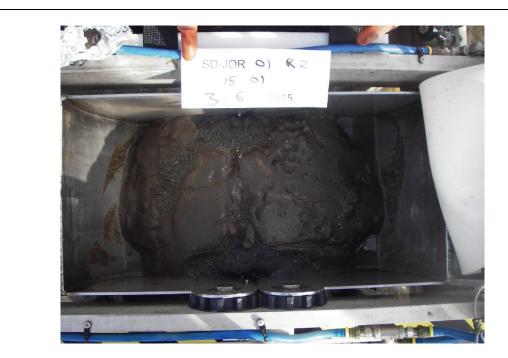


QUALITATIVE SAMPLE CHARACTERISTICS Page of							
Coordinate Datum		Date (mm/dd/yy)	Project Lo	ocation	Sample Identifi Number	cation	
WA State Plane, N Zone, NAD 83, Survey	Ft	2-6-15	Boeing PL2		SD-JOR 9 \		
Coordir	nates		Water D	Depth	T	Time	
North	1275782	East	Depth	Unit Rep	Gear	111110	
145633	127 57	83	19.5	f t \	0.2 Grab	1443	
Penetration  Depth Unit Initials S  C m 45 \( \chi \)  Surficial sediment characteristics:	ner ii. (%)	Surficial Wo	ood Estimate nts	:	X 5 =	%	
Biological:%	Debris:	6%	Oil Sheen:	None	Trace (<5%)	%	
Moisture Very Wet Wet Moist	Damp	Dry					
Color Light Medium Dark		(Circle majo Olive Gray	r & underline Brown	e modifying Black	Other		
Major Constituent Fine Medium Coars	е	(Circle majo Gravel Sand	r & underline	e <b>modifying</b> Clay			
Minor Constituent with trace Fine Medium Coars	е	Gravel Sand	) Silt	Clay	-		
Subsurface sediment characteristics:							
Density / Consistency							
Sand / Gravel - Very Loose	Loose	Medium Den	se De	nse	Very Dense	3	
Silt / Clay - Very Soft	Soft	Medium Stiff	Stil	ff	Very Stiff	Hard	
Moisture Very Wel Wet Moist	Damp	Dry					
Color Light Medium Dark			r & underline Brown	modifying Black	Other		
Major Constituent Fine Medium Coarse	Э	(Circle majo Gravel Sand	r & underline Silt	modifying Clay	ē.		
Minor Constituent with trace Fine Medium Coarse	е	Gravel Sand	Silt	Clay	1		
Biological:%	Debris:	%	Oil Sheen:	None	Trace (<5%)	%	
Comments: N/8 Sit on top of tube worms oresen	going la	yer	450.5				
			MEC Proj.	RH3/Jorg	ensen	_	
		s	D-JOR01			_	
		Q	SC Form			_	
		Da	ate: <u>/_</u> _	<u></u> /15 Tir	ne: 14 4 3		
				_			
AMEC 2500 19	001- OL OM O	ita CO1 Lumanua			A	min\Field Forms\QSC	



Station SD-JOR01 R1

QUAL	ITATIVE SA	MPLE CHARA	CT	ERISTI	cs		F	of
Coordinate Datum		Date (mm/dd/yy)		Project Lo	cation		Sample Identi Numbe	
WA State Plane, N Zone, NAD 83, Survey	 F1	3-6-15		eing PL2	Cation		D-JOR 91	···
			1000			100	7-301( 1	
Coordin	ales			Water D		-		Time
North	127 577	East	-	Depth 21.1	f t	Rep	Gear 0.2 Grab	1501
	77.0			C1.1	TIL		U.2 Grab	1001
Penetration  Depth Unit Initials  C m 55		Surficial W Contact Po		Estimate:			X 5 =	%
Surficial sediment characteristics:								
Biological:%	Debris:	2%	Oil	Sheen:	No	ne	Trace (<5%)	%
Moisture Very Wet Wet Moist	Damp	Dry						
Color Light Medium Dark		(Circle maj	-	underline	mod Black	ifying)	Other	
Major Constituent Fine Medium Coars	е	(Circle maj Gravel Sand		underline Silt	mod	<b>ifying)</b> Clay		
Minor Constituent with trace Fine Medium Coars	Э	Gravel Sand	-	5 Silt		Clay		
Subsurface sediment characteristics:	* ***				2.7			
Density / Consistency								
Sand / Gravel - Very Loose	Loose	Medium De	nse	De	nse		Very Dense	
Silt / Clay - Very Soft	Soft	Medium Stif	ff	Stil	ff		Very Stiff	Hard
Moisture Very Wet Wet Moist	Damp	Dry						
Color Light Medium Dark		(Circle maj Olive Gray		underline			Other	
Major Constituent Fine Medium Coars	9	(Circle maj Gravel Sand		underline Silt	mod	<b>ifying)</b> Clay		
Minor Constituent with trace Fine Medium Coarse	· .	Gravel Sand	ı	Silt		Clay		
Biological:%	Debris:	%	Oil	Sheen:	No	one	Trace (<5%)	%
Comments:	le In Jan	- Tealings	réy	25	77.5			
	24.52							
								-



Station SD-JOR01 R2

	QUALITATIVE SA	MPLE CHARA	CTERISTICS	Page of
Coordinate Da	ilum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83,	Survey Ft	3-6-15		SD-JOR 91
	Coordinates		Water Depth	Time
North	107 677	East	Depth Unit Rep	
195637	127577	9	31,3 113	0.2 Grab 1531
Penetration  Depth Unit Initials SO >	Weather Swany	Surficial Wo Contact Poi	ood Estimate: ints	X5 = %
Surficial sediment characteristics	J			
Biological:	% Debris:	<u> </u>	Oil Sheen: None	Trace (<5%)%
Moisture Very Wet Wet	Moist Damp	Dry		
Color Light Medium	Dark		Brown Black	g) Olher
Major Constituent Fine Medium	Coarse	(Circle majo Gravel Sand	or & underline modifying Silt Clay	
Minor Constituent with trace Fine Medium	Coarse	Gravel Sand	Silt Clay	·
Subsurface sediment characteris	itics:			
Density / Consistency				
Sand / Gravel - Very	Loose Loose	Medium Dens	se Dense	Very Dense
Silt / Clay - Very	Soft Soft	Medium Stiff	Stiff	Very Stiff Hard
Moisture Very Wet Wel	Moist Damp	Dry		
Color Light Medium	Dark		or & underline modifying Brown Black	g) Other
Major Constituent Fine Medium	Coarse	(Circle major Gravel Sand	or & underline modifying Silt Clay	
Minor Constituent with trace Fine Medium	Coarse	Gravel Sand	Silt Clay	J.
Biological:	_% Debris:		Oil Sheen: None	Trace (<5%)%
Comments:	riged roll	n' în 'ar	s vejet :	
5 tomother	book beating	High - rei	1084	
attempt 3	Afret - sa	Station time		
w. will	Lo Seri Ass.	LEWE IA WINIAN		
			4	
		<del></del>		
			3	



Station SD-JOR 01 R3

QUALITATIVE SAMPLE CHARACTERISTICS Page of						
Coordinate Date	um	Date (mm/dd/yy)	Project Loc	ation	Sample Identif Number	
WA State Plane, N Zone, NAD 83, S	Survey Ft	3-6-12	Boeing PL2		SD-JOR 92	
	Coordinates		Water De	pth		Time
North		East		Unit Re	p Gear	ann condition
195633	12758	808	13,6	f t )	0.2 Grab	.1407
	Weather (%)	Surficial Wo Contact Poir	od Estimate: nts 		X 5 = _	%
Surficial sediment characteristics  Biological:  Moisture	: % Debris:	<u></u> %	Oil Sheen:	None	Trace (<5%)	%
Very Wet Wet	Moist Damp	Dry				
Color Light Medium	Dark		r & underline r Brown B	modifyir llack	og) Other	
Major-Constituent Fine Medium	Coarse	(Circle major Gravel Sand	r & underline r Silt	<b>modifyir</b> Cla	1 T T T T T T T T T T T T T T T T T T T	
Minor Constituent with trace Fine Medium	Coarse	Gravel Sand	Silt	Cla	у	
Subsurface sediment characterist	ics:					
Density / Consistency						~
Sand / Gravel - Very L	oose Loose	Medium Dens	se Dens	se	Very Dense	
Silt / Clay - Very S	Soft Soft	Medium Stiff	Stiff		Very Stiff	Hard
Moisture Very Wet Wet	Moist Damp	Dry				
Color Light Medium	Dark		r & underline r Brown B	modifyin lack	g) Other	
Major Constituent Fine Medium	Coarse	(Circle major Gravel Sand	s & underline r	<b>modifyin</b> Cla		
Minor Constituent with trace Fine Medium	Coarse	Gravel Sand	Silt	Cla	у	
Biological:	% Debris:	%	Oil Sheen:	None	Trace (<5%)	%
Comments:	rach in hams	t. in-				
	Rep 2	Le Jack				
much of grade	Na 8 105+ , 50	imple is -	from u	ndi	mored	aren.
			As-	F.c.		
			AIM	EC Pro JOR02	)j. BP2/Jorger	isen _
	***		QSC	Form	6	
AMEC, 3	500 188th St. SW, Sเ	uite 601, Lynnwood	d, WA Date:	: 3/	6_/15 Time:	1407



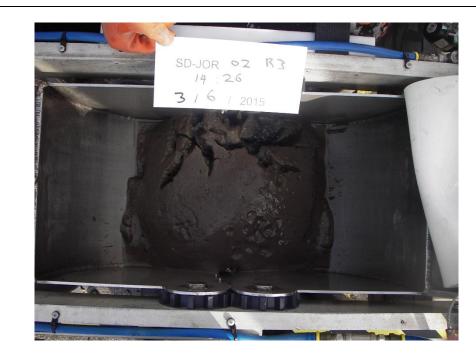
Station SD-JOR02 R1

QUA	ITATIVE SA	MPLE CHARA	CTERISTI	cs	F	Page of
Coordinate Datum		Date (mm/dd/yy)	Project Lo	cation	Sample Identi Numbe	
WA State Plane, N Zone, NAD 83, Survey	Ft	3 - 6 - 15	Boeing PL2	oddon	SD-JOR 02	
Coordi	natas					
North	lates	East	Water D Depth	Unit Re	p Gear	Time
195637	12758		12.9	f t 2		1417
Penetration  Depth Unit Initials S  C m S  Weal		Surficial We	ood Estimate: ints		X 5 =	<u></u> %
Surficial sediment characteristics:						
Biological:%	Debris:	<b>)</b> %	Oil Sheen: (	None	Trace (<5%)	%
Moisture  Very Wet Wet Moist	Damp	Dry				
Color Light Medium Dark		(Circle majo	or & underline Brown	modifyir Black	og) Other	
Major Constituent Fine Medium Coars	e	(Circle majo Gravel Sand	or & underline Silt	modifyir Cla		
Minor Constituent with trace Fine Medium Coars	e	Gravel Sand	Silt	Cla	ау	
Subsurface sediment characteristics:						
Density / Consistency						
Sand / Gravel - Very Loose	Loose	Medium Der	ise De	nse	Very Dense	
Silt / Clay - Very Soft	Soft	Medium Stiff	f Stir	ff	Very Stiff	Hard
Moisture Very Wet Wet Moist	Damp	Dry				
Color Light Medjum Dark			Brown	modifyir Black	Other	
Major Constituent Fine Medium Coars	ee	(Circle majo Gravel Sand	or & underline	modifyir Cla		
Minor Constituent with trace Fine Medium Coars	ie)	Gravel Sand	Silt	Cla	ay	
Biological:%	Debris:	%	Oil Sheen:	None	Trace (<5%)	%
Comments:			***************************************			
			7			
la .						



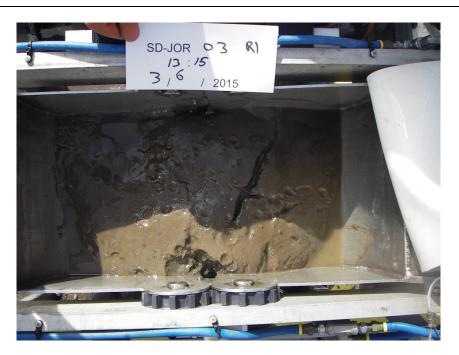
Station SD-JOR02 R2

QUAL	ITATIVE SA	MPLE CHARA	CTERISTICS	Page of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey	Ft	3-6-15	Boeing PL2	SD-JOR 02
Coordin	nates		Water Depth	Time
North		East	Depth Unit Re	
195631	12758	311	13.5 ft	3 0.2 Grab 1426
Penetration  Depth Unit Initials S S Now S		Surficial Wo	od Estimate: nts	%
Surficial sediment characteristics:				
Biological:%	Debris:	<u> </u>	Oil Sheen: None	Trace (<5%)%
Moisture Very Wet Wet Moist	Damp	Dry		
Color Light Medium Dark		(Circle majo Olive Gray	r & underline modifyir Brown Black	ng) Olher
Major Constituent Fine Medium Coars	e .*	(Circle majo Gravel Sand	Silt Cla	
Minor Constituent with trace Fine Medium Coars		Gravel Sand	Silt Cla	ау
Subsurface sediment characteristics:				
Density / Consistency				
Sand / Gravel - Very Loose	Loose	Medium Den	se Dense	Very Dense
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff Hard
Moisture  Very Wet Wet Moist	Damp	Dry		
Color Light Medium Dark		(Circle majo Olive Gray (	r & underline modifyir Brown Black	ng) Other
Major Constituent Fine Medium Coars	е	(Circle majo Gravel Sand	Silt Cla	
Minor Constituent with trace Fine Medium Coars		Gravel Sand	Silt Cla	ау
Biological:%	Debris:	<u></u> %	Oil Sheen: None	Trace (<5%)%
Comments:				
		-		



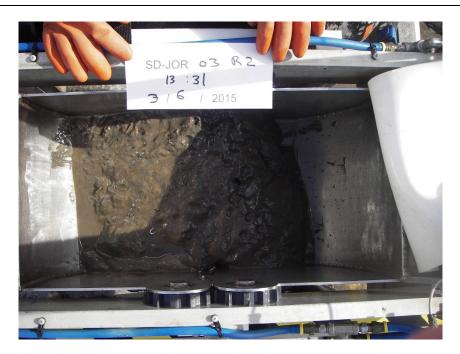
Station SD-JOR02 R3

QUALITATIVE SAMPLE CHARACTERISTICS Page of							
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number			
WA State Plane, N Zone, NAD 83, Survey	Ft	3-6-15	Boeing PL2	SD-JOR O 3			
Coordi	nates	-	Water Depth	Time			
North		East	Depth Unit R	Rep Gear			
195535	12758	27	15.6 f t	) 0.2 Grab 13 15			
Penetration  Depth Unit Initials 0 Weal  c m 607 Swnn  Surficial sediment characteristics:		Surficial Wo	ood Estimate: ints 	X 5 =%			
Biological:%	Debris:	<u> </u>	Oil Sheen: None	Trace (<5%)%			
Moisture Wery Wet Wet Moist Color	Damp	Dry (Circle main	or & <u>un</u> derline modify	inal			
Light Medium Dark		Olive Gray	Brown Black	Other			
Major Constituent Fine Medium Coars	se	(Circle majo Gravel Sand	or & underline modify	ring) Clay			
Minor Constituent with trace Fine Medium Coars	se	Gravel Sand	Silt C	Clay			
Subsurface sediment characteristics:							
Density / Consistency							
Sand / Grayel - Very Loose	Loose	Medium Der	nse Dense	Very Dense			
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff Hard			
Moisture Very Wet Wet Moist	Damp	Dry					
Color Light Medium Dark		(Circle majo Olive Gray	or & underline modify Brown Black	ring) Other			
Major Constituent Fine Medium Coars	se ,	(Circle majo Gravel Sand	or & underline modify	ring) Clay			
Minor Constituent with trace Fine Medium Coars	se	Gravel Sand	Silt C	Clay			
Biological:%	Debris:	%	Oil Sheen: None	e Trace (<5%)%			
Comments:  THER WOVENS DIE  A FEW LOCKS DIESEN  (by IED MALE RIS  SILT TO DOTTOM OF	Send at 1 behille 17 cm of 19 gmb	Surfac en mab sid)	AMEC Proj. BP SD-JOR03 QSC Form Date: 3 / 6	2/Jorgensen /15 Time:			



Station SD-JOR03 R1

QUALITATIVE SAMPLE CHARACTERISTICS Page of							
Coordinate Datum		Date (mm/dd/yy)	Project Loc		Sample Identifi Number	cation	
WA State Plane, N Zone, NAD 83, Survey	Fl	3-6-15	Boeing PL2		S-JOR 93		
Coordin	nates		Water De	epth		Time	
North	15550	East		Unit Rep	Gear	100	
195539	12758	24	17-4	ft <sup>2</sup>	0.2 Grab	1331	
Penetration  Depth Unit Initials  C m C 5 N S Weat  Surficial sediment characteristics:		Surficial Wo	ood Estimate: nts		X5 = _	%	
Biological:%	Debris:	0%	Oil Sheen:	None	Trace (<5%)	%	
Moisture Very Wet Wet Moist  Color Light Medium Dark	Damp		or & underline				
		Olive Gray		Black	Other		
Major Constituent Fine Medium Coars	е	(Circle majo Gravel Sand	or & underline Silt	modifying) Clay			
Minor Constituent with trace Fine Medium Coars	e	Gravel Sand	Silt	Clay			
Subsurface sediment characteristics:							
Density / Consistency							
Sand / Gravel - Very Loose	Loose	Medium Der			Very Dense		
Śilt / Clay - Very Soft	Soft	Medium Stiff	Stiff		Very Stiff	Hard	
Moisture Very Wet Wet Moist	Damp	Dry					
Color Light Medium Dark		Olive Gray	Brown I	<b>modifying)</b> Black	Other		
Major Constituent Fine Medium Coars	e	(Circle majo Gravel Sand	or & underline Silt	modifying) Clay			
Minor Constituent With trace Fine Medium Coars	e (	Gravel Sand	Silt	Clay	-		
Biological:%	Debris:	0%	Oil Sheen:	None	Trace (<5%)	%	
Comments:  Tubl worms orcs grave at very no	ent at a	surface grab		ŧ			
			- 1				
						Amin\Field Forms\QSC	



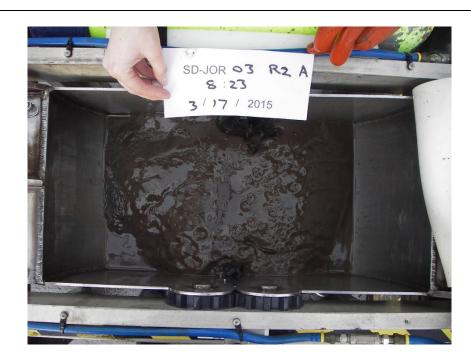
Station SD-JOR03 R2

C	UALITATIVE SA	MPLE CHARAC	CTERISTICS	Page of
Coordinate Datu	ım	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Si	urvey Ft	3-6-15	Boeing PL2	D-JOR 03
C	coordinates		Water Depth	Time
North		East	Depth Unit Rep	Gear
195533	12758	24	18.7 ft3	0.2 Grab 13 4 4
	Weather iii. %	Surficial Woo		X 5 =%
Surficial sediment characteristics:	,			00 00 00 00 00
Biological:	% Debris:	<u> </u>	Oil Sheen: None	Trace (<5%)%
Moisture Very Wet Wet	Moist Damp	Dry		
Color Light Medium	Dark		& underline modifying Brown Black	Other
Major Constituent Fine Medium	Coarse	(Circle major Gravel Sand	& underline modifying Silt Clay	
	Coarse	Gravel Sand	Silt Clay	
Subsurface sediment characteristi	cs:			
Density / Consistency				
Sand / Gravel - Very Lo	oose Loose	Medium Dens	e Dense	Very Dense
Silt / Clay - Very S	oft Soft	Medium Stiff	Stiff	Very Stiff Hard
Moisture Very Wet Wet	Moist Damp	Dry		
Color Light Medium	Dark		& underline modifying Brown Black	Other
Major Constituent Fine Medium	Coarse	(Circle major Gravel Sand	& underline modifying Silt Clay	pe-1/.
Minor Constituent with trace Fine Medium	Coarse	Gravel Sand	Silt Clay	
Biological:	% Debris:	<u>_</u> %	Oil Sheen: None	Trace (<5%)%
Comments: + Well work	us present	f An		
	V			
				Amin\Field Forms\QSC



Station SD-JOR03 R3

QUAL	ITATIVE SA	MPLE CHARA	CTERISTI	cs	F	Page of
Coordinate Datum		Date (mm/dd/yy)	Project Lo	cation	Sample Identi Numbe	
WA State Plane, N Zone, NAD 83, Survey	Ft	D 15 15	Boeing PL2		$\mathcal{E}_{\sigma}$ AOL-DS	R2
Coordin	nates		Water D	epth		Time
North		East	Depth	Unit Re	p Gear	
127498	12758	344	17.0	f t		823
Penetration  Depth Unit Initials S S Weat		Surficial Wo Contact Poir			X 5 =	<u></u> %
Surficial sediment characteristics:  Biological: ( tole worms) %  Moisture	Debris:	%	Oil Sheen:	None	Trace (<5%)	%
Very Wet Wet Moist  Color Light Medium Dark	Damp	Olive Gray	r & underline Brown	modifyir Black	n <b>g)</b> Other	
Major Constituent Fine Medium Coars	е	(Circle major Gravel Sand	silt	modifyir		
Minor Constituent with trace Fine Medium Coars	е	Gravel Sand	Silt	Cla	зу	
Subsurface sediment characteristics:						
Density / Consistency						
Sand / Gravel - Very Loose	Loose	Medium Dens	se De	nse	Very Dense	
Silt / Clay - Very Soft	Soft	Medium Stiff	Stit	f	Very Stiff	Hard
Moisture Very Wet Wet Moist	Damp	Dry				
Color Light Medium Dark		Olive Gray	r <b>&amp; underline</b> Brown	modifyir Black	ng) Other	
Major Constituent Fine Medium Coars	е	(Circle major Gravel Sand	silt Silt	modifyir Cla	-	
Minor Constituent with trace Fine Medium Coars	ę	Gravel Sand	Silt	Cla	ıy	
Biological:%	Debris:	<u> </u>	Oil Sheen:	None	Trace (<5%)	%
Comments:  3 layer of Silt on  Substitute has court  Silt Mixed trige	Lop se grave Then	) o.n.	50 3	tals, PC	/Jorgensen	
			- Date: <u>3</u>	<u> </u>	15 Time: <u>8</u> 2	Amin\Field Forms\QSC



Station SD-JOR03 R2A

QUAL	ITATIVE SA	MPLE CHARA	CTERISTICS	Page of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey	Ft	3-17-15	Boeing PL2	SD-JOR 03 RZ
Coordin	nates		Water Depth	Time
North		East	Depth Unit Re	p Gear
145497	127584	+6		3 0.2 Grab 836
Penetration  Depth Unit Initials S S Weat	her Lines	Surficial Wo	ood Estimate: nts	X 5 =%
Surficial sediment characteristics:				
Biological: (tube worms)%	Debris:	<u> </u>	Oil Sheen: None	Trace (<5%)%
Moisture Very Wet Wet Moist	Damp	Dry		
Color Light Medium Dark		(Circle majo Olive Gray	Brown Black	ng) Other
Major Constituent (Fine) Medium Coars	e	(Circle majo Gravel Sand	or & underline modifyir Silt Cla	
Minor Constituent with trace Fine Medium Coars	i <b>e</b>	Gravel Sand	Silt Cla	ау
Subsurface sediment characteristics:				
Density / Consistency				
Sand / Gravel - Very Loose	Loose	Medium Den	se Dense	Very Dense
<u>Silt / Clay -</u> Very Soft	Soft	Medium Sliff	Stiff	Very Stiff Hard
Moisture Very Wet Wet Moist	Damp	Dry		
Color Light Medium Dark	>	Olive Gray	or & underline modifyin Brown Black	ng) trace Other orange
Major:Constituent (Fine Medium Coars	se	(Circle majo Gravel Sand	or & underline modifying	
Minor Constituent with trace	7			
Fine Medium Coars	ie (	Gravel Sand	Silt Cla	
Biological:%	Debris:	%	Oil Sheen: None	) Trace (<5%)%
Comments:  31 layer of 5/1+01  Mided throughout	top, 5	ubsurface	has grave	land silt



Station SD-JOR03 R2B

QUALITATIVE SAMPLE CHARACTERISTICS Page of							
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number			
WA State Plane, N Zone, NAD 83, Survey	Ft	- 15		SD-PER JOR 03 R	12		
Coordin			Water Depth	Tim	e		
North		East	Depth Unit Rep				
195496	127 5 84		16.3 ft C	0.2 Grab 8 4 8			
Penetration  Depth Unit Initials S S Weat	her Lines	Surficial Wood Contact Points		X 5 =	%		
Surficial sediment characteristics:	,	~					
Biological:%	Debris:	<u> </u>	il Sheen: None	Trace (<5%)	%		
Moisture Very Wet Wet Moist	Damp	Dry					
Color Light Medium Dark	C	/	sunderline modifyin rown Black	g) Other			
Major Constituent Fine Medium Coars	se (	(Circle major a Gravel 'Sand	& underline modifyin				
Minor Constituent with trace Fine Medium Coars	se (	Gravel Sand	Silt Cla	у			
Subsurface sediment characteristics:							
Density / Consistency							
Sand / Gravel - Very Loose	Loose	Medium Dense	e Dense	Very Dense			
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff H	ard		
Moisture Very Wet Wet Moist	Damp	Dry					
Color Light Medium Dark	)	(Circle major Olive Gray E	<b>&amp; underline modifyir</b> Brown Black	Other			
Major Constituent Fine Medium Coar	se	<b>(Circle major</b> Gravel Sand	& underline modifying Silt Cla				
Minor Constituent with trace		0 1 0 1	0111				
Fine Medium Coan	Debris:	Gravel Sand	Silt Cla		%		
	Debris	<u> </u>	Oil Sheen: None	Trace (<5%)	<sup>70</sup>		
Comments:	1 - rock	is in jan	v-leakage	- réject			
4" Silt on top of	gravel.	~					
	Ø						



Station SD-JOR03 R2C

QUALITATIVE SAMPLE CHARACTERISTICS Page of							
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number			
WA State Plane, N Zone, NAD 83, Sur	3-6-15 B	peing PL2 S	D-JOR 04				
Co	ordinates		Water Depth	Time			
North	East		Depth Unit Rep	Gear			
195541	127582	15	9.4 f t	0.2 Grab \\\\3			
Penetration  Depth Unit Initials V  C m C V  V	Veather S	Surficial Wood Contact Points		X 5 =%			
Surficial sediment characteristics:							
Biological:%	Debris:	<u> </u>	il Sheen: None	Trace (<5%)%			
Moisture Very Wet Wet M	loist Damp	Dry					
Color Light Medium D	ark		Lunderline modifying rown Black	Other			
Major Constituent Fine Medium C	oarse	Grave (Circle major &	<b>L underline modifying</b> Silt Clay				
Minor Constituent with trace Medium C	oarse	Gravel Sand	Silt Clay				
Subsurface sediment characteristic	s:						
Density / Consistency							
Sand / Gravel - Very Loc	ose Loose	Medium Dense	Dense	Very Dense			
Silt / Clay - Very So	ft Soft	Medium Stiff	Stiff	Very Stiff Hard			
Moisture Very Wet Wet N	loist Damp	Dry					
Color Light Medium D	ark		underline modifying rown Black	Other			
Major Constituent Fine Medium C	oarse	Gravel Sand	<b>&amp; underline modifying</b> Silt Clay	•			
Minor Constituent with trace Fine Medium C	oarse	Gravel Sand	Silt Clay				
Biological:%	Debris:	<u></u> % o	il Sheen: None	Trace (<5%)%			
Comments:	rock in	(janys - 1	tradiment	-vergect			
1/2" silt layer on +	op of grave	1 Jallon					
THE KIND OF THE WAY	0	AMEC	Proj. BP2/Jorgens	en ——			
		SD-JOF	R04				
		QSC Fo	orm				
		Date: 3	_//15 Time:_	1113			

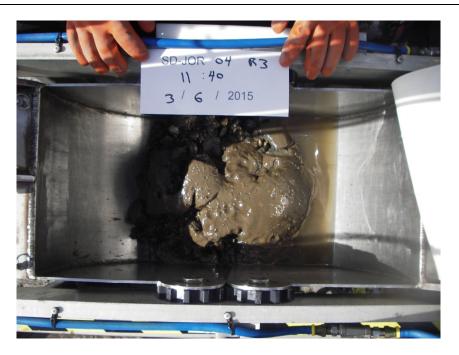


Station SD-JOR04 R1

QUALITATIVE SAMPLE CHARACTERISTICS Page of							
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number			
WA State Plane, N Zone, NAD 83, Survey	3-6-15 Bo	eing PL2	SD-JOR DY				
Coordi	nates		Water Depth	Time			
North		East	Depth Unit Rep	Gear			
195537	12758	4-5	9.7 ft2	0.2 Grab 1/28			
	ther ii %	Surficial Wood Contact Points		X 5 =9			
Surficial sediment characteristics:							
Biological:%	Debris:	)% Oil	Sheen: (None)	Trace (<5%)%			
Moisture Very Wet Wel Moist	Damp	Dry					
Color Light Medium Dark			underline modifyin own Black	g) Other			
Major Constituent Fine Medium Coars	se	(Circle major & Gravel Sand	underline modifyin Silt Cla				
Minor Constituent with trace Fine Medium Coars	se C	Gravel Sand	Silt Cla	у			
Subsurface sediment characteristics:							
Density / Consistency		`					
Sand / Gravel - Very Loose	Loose	Medium Dense	Dense	Very Dense			
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff Hard			
Moisture Very Wet Wet Moist	Damp	Dry					
Color Light Medium Dark			underline modifyin own Black	g) Other			
Major Constituent Fine Medium Coar	se	Gravel Sand	underline modifyin Silt Cla	<del>-</del>			
Minor Constituent with trace Fine Medium Coar	se	Gravel Sand	) <u>Silt</u> Cla	у			
Biological:%	Debris:	% Oi	Sheen: None	Trace (<5%)			
Comments:	on top						



QUALITATIVE SAMPLE CHARACTERISTICS Page of							
Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number				
WA State Plane, N Zone, NAD 83, Survey	3-6-15	Boeing PL2	SD-JOR 94				
Coordinates			Water Depth	Time			
North		East	Depth Unit Re				
195537	127 581	43	9.6 ft3				
Penetration  Depth Unit Initials S S Weat		Surficial Wo	ood Estimate: nts	X 5 =%			
Surficial sediment characteristics:							
Biological:%	Debris:	<u>/</u> %	Oil Sheen: None	) Trace (<5%)%			
Moisture Very Wet Wet Moist	Damp	Dry					
Color Light Medium Dark		(Circle majo	or & underline modifyi Brown Black	ng) Olher			
Major Constituent Fine Medium Coars	e	(Circle majo Gravel Sand	or & underline modifyi	<b>ng)</b> ay			
Minor Constituent with trace Fine Medium Coars	е (	Gravel Sand	Silt CI	ay			
Subsurface sediment characteristics:							
Density / Consistency							
Sand / Gravel - Very Loose	Loose	Medium Den	se Dense	Very Dense			
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff Hard			
Moisture Very Wet Wet Moist	Damp	Dry					
Color Light Medium Dark		Olive Gray	Brown Black	Other			
Major Constituent Fine Medium Coars	9	(Circle majo Gravel Sand	Silt C	i <b>ng)</b> ay			
Minor Constituent with trace							
Fine Medium Coars		Gravel Sand		lay			
Biological:%	Debris:	<u>/</u> / %	Oil Sheen: None	Trace (<5%)%			
comments: ~3/4" sill on top	of grave	0/sand w	uixture				
		77 77 77 77 77 77 77 77 77 77 77 77 77					



Station SD-JOR04 R3

QUALITATIVE SAMPLE CHARACTERISTICS Page of						
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number		
WA State Plane, N Zone, NAD 83, Survey	Ft	- /		SD-JOR 95		
Coordin	aloc		T T	T		
North	lates	East	Water Depth Depth Unit Rep	Time		
195400	12758		)6-3 f t 1	0.2 Grab 954		
Penetration  Depth Unit Initials S S Weat  2 2 c m 65		Surficial Wo Contact Poir	od Estimate: nts	X 5 =	%	
Surficial sediment characteristics:	Dahaira	<i>~</i>				
Moisture Very Wet Wet Moist	Debris:	Dry	Oil Sheen: None	Trace (<5%)	%	
Color Light Medium Dark			r & underline modifying Brown Black	g) Other		
Major Constituent Fine Medium Coars	e /	(Circle major	r & underline modifying Silt Clay			
Minor Constituent with trace Fine Medium Coars	e	Gravel Sand	Silt Clay			
Subsurface sediment characteristics:			2225384.2 14 Me 189016-415-7			
Density / Consistency						
Sand / Gravel - Very Loose	Lóose	Medium Dens	se Dense	Very Dense		
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff Har	rd	
Moisture Very Wet Wet Moist	Damp	Dry				
Color Light Medium Dark		(Circle major Olive Gray	r & underline modifying Brown Black	g) Other		
Major Constituent Fine Medium Coars		(Circle major Gravel Sand	<b>&amp; underline modifyin</b> Silt Clay			
Minor Constituent with trace Fine Medium Coars	е (	Gravel Sand	Silt Clay			
Biological:%	Debris:	0 %	Oil Sheen: None	Trace (<5%)	%	
Comments: - tube worms pres	ient in s		AMEC Proj. BP2/J	orgensen		
•,			SD-JOR05		<u>-</u>	
			QSC Form		-	
			Date: <u>3 /6</u> /15	Time:954	-	
				(	-	
				Amin\Field For	ms\QSC	



QUA	LITATIVE SA	MPLE CHARA	CTERISTIC	S	P	age of
Coordinate Datum	Date (mm/dd/yy)	Project Loc	ration	Sample Identification Number		
WA State Plane, N Zone, NAD 83, Survey	3-6-15	Project Location Number  Boeing PL2 SD-JOR 05				
Coordi	nales					Time
North	nates	East	Water De Depth	Unit Rep	Gear	ime
195 399	1275		1. (	f t 2	0.2 Grab	1009
Penetration  Depth Unit Initials S  Wea  Y  c m c57	her Eines (%)		ood Estimate:		X5 =	%
Surficial sediment characteristics:						
Biological:%	Debris:	<u> </u>	Oil Sheen:	None	Trace (<5%)	%
Moisture Very Wet Wet Moist	Damp	Dry				
Color Light Medium Dark		(Circle maj	or & underline Brown E	<b>modifying</b> Black	Other	
Major Constituent Fine Medium Coars	se	(Circle maj Gravel Sand	or & underline	modifying Clay		
Minor Constituent with trace Fine Medium Coar	se	Gravel Sand	l Silt	Clay		
Subsurface sediment characteristics:						
Density / Consistency						
Sand / Gravel - Very Loose	Loose	Medium De	nse Den	ise	Very Dense	
Silt / Clay - Very Soft	Soft	Medium Sti	ff Stiff	•	Very Stiff	Hard
Moisture Very Wet Wet Moist	Damp	Dry				
Color Light Medium Dark		(Circle maj Olive Gray	or & underline Brown	modifying Black	Other	
Major Constituent Fine Medium Coar	se)	Gravel Sand	or & underline I Silt	<b>modifying</b> Clay	50	
Minor Constituent with trace Fine Medium Coar Biological: %	se  Debris:	Graver Sand	Silt Oil Sheen:	Clay	Trace (<5%)	%
Comments: CENTER OF Sample of Open, Sampled A	nab 1031 Side o	becaus f grab-	e rock	s hel	ld the	jaw)
		THE			T	



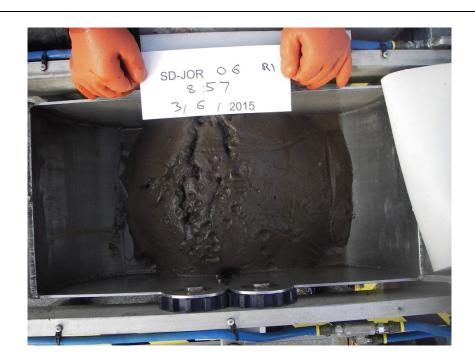
Station SD-JOR05 R2

QU	ALITATIVE SA	MPLE CHARAC	TERISTICS	Page of	
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number	
/A State Plane, N Zone, NAD 83, Surv	vey Ft	3-6-15 B	peing PL2 S	D-JOR 9 S	
Con	ordinates		Water Depth	Time	
North	- dillacoo	East	Depth Unit Rep	Gear	
195 397	12758		16.3 ft3	0.2 Grab 1023	
15 cm 6>1 pc	eather Euch	Surficial Wood Contact Points		X 5 =%	
urficial sediment characteristics:					
Biological:%	Debris:	<u>O</u> % o	il Sheen: None	Trace (<5%)%	
Moisture Very Wet Wet Mo	pist Damp	Dry			
Color Light Medium Da	ark		underline modifying own Black	) Other	
Major Constituent Fine Medium Co	parse	(Circle major & Gravel Sand (	Silt Clay		
Minor Constituent with trace Fine Medium Co	parse	Gravel Sand	Silt Clay		
ubsurface sediment characteristics	1		And the second s		
Density / Consistency					
Sand / Gravel - Very Loo		Medium Dense		Very Dense	
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff Hard	
Moisture Very Wet Wet Mo	pist Damp	Dry			
Color Light Medium Da	ark	(Circle major & Olive Gray B	cown Black	Other	
Major Constituent Fine Medium Co	parse	(Circle major & Gravel Sand	k underline modifying Silt Clay		
Minor Constituent with trace Fine Medium Co	parse	Gravel Sand	Silt Clay	J	
Biological:%	Debris:	% O	il Sheen: None	Trace (<5%)%	
Comments:	.p 2 in 6P	'S		again.	
3					
		-			



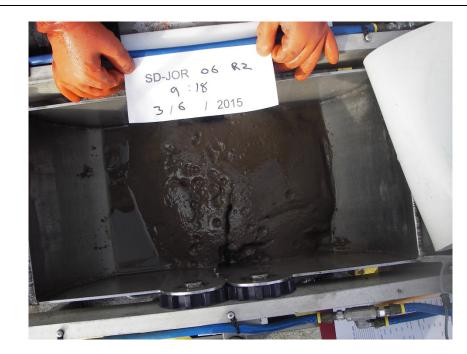
Station SD-JOR05 R3

QUAL	ITATIVE SAMPLE	CHARACT	ERISTICS	Page of	
Coordinate Datum	(m	Date m/dd/yy)	Project Location	Sample Identification Number	
WA State Plane, N Zone, NAD 83, Survey				SD-JOR 96	
Coordin	ales		Water Depth	Time	
North	East		Depth Unit Rep		
195397	1275893	•	12-6 f t	0.2 Grab 857	$\dashv$
Penetration  Depth Unit Initials S S Weath	er E &	Surficial Wood Contact Points	Estimate:	X 5 =	_%
Surficial sediment characteristics:					
Biological: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Debris:	% Oil	Sheen: None	Trace (<5%)	_%
Moisture Very Wet Wet Moist	Damp Dry	,			
Color Light Medium Dark	Olive		underline modifying own Black	(a) Other	
Major Constituent Fine Medium Coars			underline modifying Silt Clay	•••	
Minor Constituent with trace Fine Medium Coars	e Gravel	Sand	Silt Clay		
Subsurface sediment characteristics:	2 31 100-780 78-30 10 10				
Density / Consistency					
Sand / Gravel - Very Loose		Medium Dense	Dense	Very Dense	
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff Hard	1
Moisture Very Wet Wet Moist	Damp Dry	/			
Color Light Medium Dark	Olive	(Circle major & Gray Bro	underline modifying own Black	g) Other	
Major Constituent Fine Medium Coars	The Transfer of the Control of the C		underline modifying Silt Clay		
Minor Constituent with trace Fine Medium Coars	e Grave	Sand	Silt Clay		
Biological:%	Debris:	% Oil	Sheen: None	Trace (<5%)	_%
Comments:	hal	<b>AME</b> 0			***
1/2" layer of silt on	top		Proj. BP2/Jorge	nsen	_
		SD-JC			_
		QSC F		-	
		Date:	<u> </u>	e:857	_
				Amin\Field Form	ns/QSC



Station SD-JOR06 R1

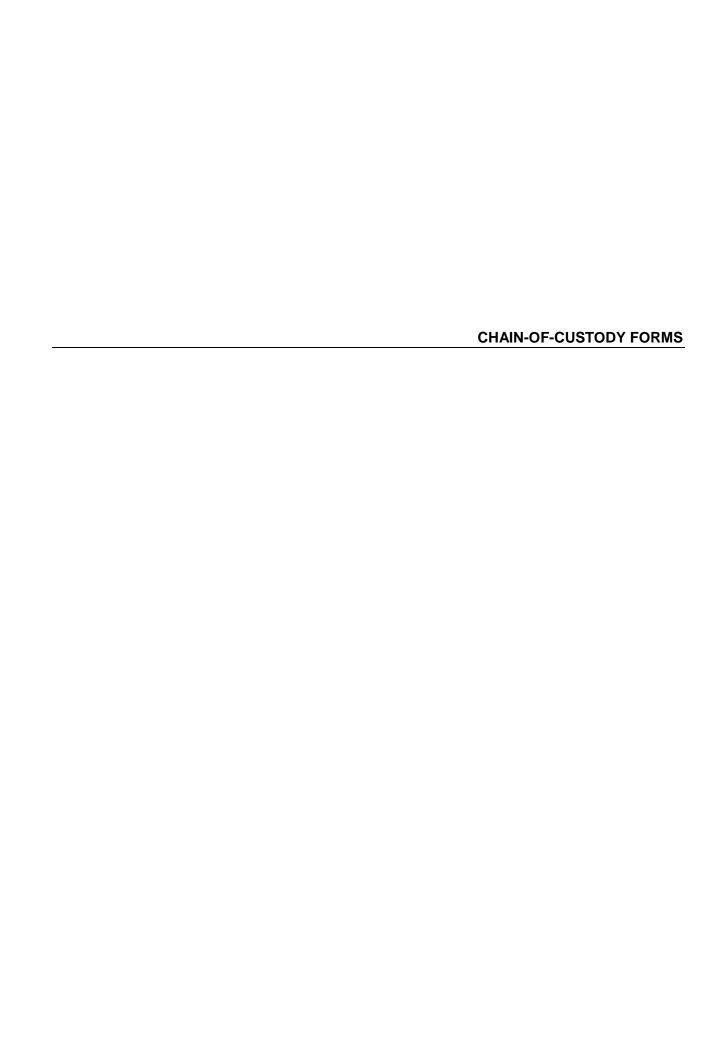
QUAL	ITATIVE SA	MPLE CHARAC	TERISTICS	Page of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey	Ft	3-6-15	Boeing PL2	D-JOR 96
Coordin	estos		Water Doub	
North	lates	East	Water Depth	Time
195397	12758		Depth Unit Rep	0.2 Grab 918
Penetration Depth Unit Initials S S Weath	Jes (	Surficial Woo	od Estimate:	X 5 =%
Surficial sediment characteristics:	,			
Biological:%  Moisture%	Debris:	<u></u> %	Oil Sheen: None	Trace (<5%)%
Very Wet Wet Moist	Damp	Dry		
Color Light Medium Dark			& underline modifying Brown Black	Other
Major Constituent Fine Medium Coars	е	(Circle major Gravel Sand	& underline modifying Silt Clay	
Minor Constituent with trace Fine Medium Coars	e	Gravel Sand	Silt Clay	
Subsurface sediment characteristics:				
Density / Consistency				
Sand / Gravel - Very Loose	Loose	Medium Dens	e Dense	Very Dense
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff Hard
Moisture Very Wet Wet Moist	Damp	Dry		
Color Light Medium <u>Dark</u>			& underline modifying Brown Black	Other
Major Constituent Fine Medium Coars		(Circle major Gravel Sand	& underline modifying Silt Clay	
Minor Constituent with trace Fine Medium Coars	e	Gravel Sand	Silt Clay	
Biological:%	Debris:	%	Oil Sheen: None	Trace (<5%)%
few tube worms silt layer > 72" by	4 mixed	in to both	M	
	7			Amin\Field Forms\QSC



QUAI	ITATIVE SA	MPLE CHARA	CTERISTICS	Page of
Coordinate Datum		Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey	Ft	3-6-15		SD-JOR 96
Coordi	nales		Water Depth	Time
North		East	Depth Unit Rep	Gear
195395	127589	12	11.8 f t 3	0.2 Grab 935
Penetration  Depth Unit Initials O Weat  15 c m < w   g C \ 20.		Surficial Wo	ood Estimate: ints	X 5 =%
Surficial sediment characteristics:				
Biological:%	Debris:	%	Oil Sheen: None	Trace (<5%) %
Moisture Very Wet Wet Moist	Damp	Dry		
Color Light Medium Dark		Olive Gray	Brown Black	Other
Major Constituent Fine Medium Coars	9	(Circle majo Gravel Sand	or & underline modifying Silt Clay	•
Minor Constituent with trace Fine Medium Coars	ie	Gravel Sand	Silt Clay	
Subsurface sediment characteristics:				
Density / Consistency				
Sand / Gravel - Very Loose	Loose	Medium Den	se Dense	Very Dense
Silt / Clay - Very Soft	Soft	Medium Stiff	Stiff	Very Stiff Hard
Moisture Very Wet Wet Moist	Damp	Dry		
Color Light Medium Dark		Olive Gray	or & underline modifying Brown Black	Other
Major Constituent Fine Medium Coars	se')	(Circle majo Gravel Sand	silt Clay	
Minor Constituent with trace Fine Medium Coars	Se /	Grave) Sand	Silt Clay	
Biological: %	Debris:	%	Oil Sheen: None	Trace (<5%) %
Comments:	\ .		4 4	4 1 1
less silt from first	5 2 7 mb	jaws raja	Cl 2 No Ch.7	11 razor 10d



Station SD-JOR06 R3



### **AMEC**

3500 188th St. SW, Suite 601 Lynnwood,WA 98037 (425) 921-4000

## **CHAIN OF CUSTODY**

	,			An	alysis Contain	ers	
AMEC Proj. BP2 Perimeter COC Number 080		SMS Metals (As, Cd,	Cr, Cu, Pb, Hg, Ag, Zn) TOC, and	PCBs (by Aroclor)	Archive		Recorded by:
AMEC Proj. BP2/Jorgensen	Date:						Number of containers
SD-JOR05			}				
COC Form	Time:		32				1
Initials:	842						
AMEC Proj. BP2/Jorgensen	Date:	T					Number of containers
SD-JOR06			X				
COC Form	fime:		)				
Initials: Date:/2014	1005						
	Date:						Number of containers
AMEC Proj. BP2/Jorgensen							
SD-JOR04	Time:		)				
COC Form	1941						
Initials:	Date:	-		$\dashv$			Number of containers
AMEC Proj. BP2/Jorgensen							
SD-JOR01	Time:		)				
COC Form	1/21						
	Date:	_		+			Number of containers
AMEC Proj. BP2/Jorgensen	4						
SD-JOR02	ime:		)				)
COC Form	1242						
Initials: Date:/2014	Date:	-		+			Number of containers
Dises Cample ID Lahel Here	r.						
AMEC Proj. BP2/Jorgensen	ie:		)				
SD-JOR03	1407		f				Į.
COC Form				+			Number of containers
Initials:Date:/2014							reamber of containers
or Write ID Number Here	Time:						
Laboratory Sample Receipt  ARI Project Manager—Kelly Bottem		h	Rei Name:	linqu	uished By	Name:	Received By
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com.ph		T	Till	14	Com		-1

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph
425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby
(crystal.neirby@amec.com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly
homogenized before analysis.

Relinquished By	Received By	
Name: Type Henry	Name: 12	
Date: 1/24/2014	Date: 1/- 2 4/-1 4	
Time: 15:52	Time:	

### **AMEC**

3500 188th St. SW, Suite 601 Lynnwood,WA 98037 (425) 921-4000

### **CHAIN OF CUSTODY**

	-		alysis Contain	ers	
Place Sample ID Label Here or Write ID Number Here		SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive	÷	Recorded by:
AMEC Proj. BP2/Jorgensen	Date:				Number of containers
SD-JOR06					
	Time:	)			\
COC Form				1.5	)
Date: 3 / 6 /15 Time: 8 5 7				1	
AMEC Proj. BP2/Jorgensen	Date:				Number of containers
SD-JOR05	Time:				1
COC Form					
Date: 3 / 6 /15 Time: 957					
AMEC Proj. BP2/Jorgensen	Date:				Number of containers
			: !		
SD-JOR04	Time:	)			)
COC Form					
Date: <u> </u>	Date:				Number of containers
AMEC Proj. BP2/Jorgensen					
SD-JOR03		1			N .
3D-3ON03	Time:	/			)
COC Form					
Date: 3/5/15 Time: 13/5	Date:				Number of containers
AMEC Proj. BP2/Jorgensen					
SD-JOR02	Time:	)			
SD-JOR02					,
COC Form					
Date: <u>3 / 6 /</u> 115 Time: 14 5 7	Date:				Number of containers
		\			`
AMEC Proj. BP2/Jorgensen	Time:	)			)
SD-JOR01					
COC Form	Date:				Number of containers
Date: 2 / 6 /15 Time: 12 / 3					
Date	Time:	4	-		
Laboratory Sample Receipt			quished By		Received By
AR! Project ManagerKelly Bottem		Name:	11	Name:	1 - 1, 1

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph
425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby
(crystal.neirby@amec.com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly
homogenized before analysis.

Relinquished By	Received By
Name: Gary Maxwell	Name: Chris Ahull
Date: 3-6-15	Date: 3 - 6 - 15
Time: 1658	Time: (652
	Admin\Field Forms\COC

### **AMEC**

3500 188th St. SW, Suite 601 Lynnwood,WA 98037 (425) 921-4000

# **CHAIN OF CUSTODY**

	_		nalysis Contain	ers	<sup>(1)</sup>
Place Sample ID Label Here or Write ID Number Here		SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Recorded by:
AMEC Proj. BP2/Jorgensen	Date:	0, 0 7 11	1		Number of containers
5D JOR 03 RZ					
COC Form	Time:	\			\
Date: 3 / ) 7 /15 Time: 8 2 3		20			
Place Sample ID Label Here or Write ID Number Here	Date:			6	Number of containers
	Dale:				
Place Sample ID Label Here or Write ID Number Here					Number of containers
	Time:				
Place Sample ID Label Here or Write ID Number Here	Dale:				Number of containers
	Time:				
Place Sample ID Label Here or Write ID Number Here	Date:	6			Number of containers
	Time:				
Place Sample ID Label Here or Write ID Number Here	Date:				Number of containers
	Time:				
Place Sample ID Label Here or Write ID Number Here	Dale:				Number of containers
	Time:				
Laboratory Sample Receipt		Relino	uished By		Received By
ARI Project Manager—Kelly Bottem AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023) AMEC Laboratory Coordinator—Crystal Neirby		Name:	Kolbi, 125	Name:	2
(crystal.neirby@amec.com ph. 206-838-8469)		3/17	1/15	3	HIS
Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis.		Time: 152	23	Time:	72